

**PCB Hot Spot Area TCRA  
Project Status Update  
BCT Meeting June 23, 2011**



Tier 1 on June 8, 2011



# Outline

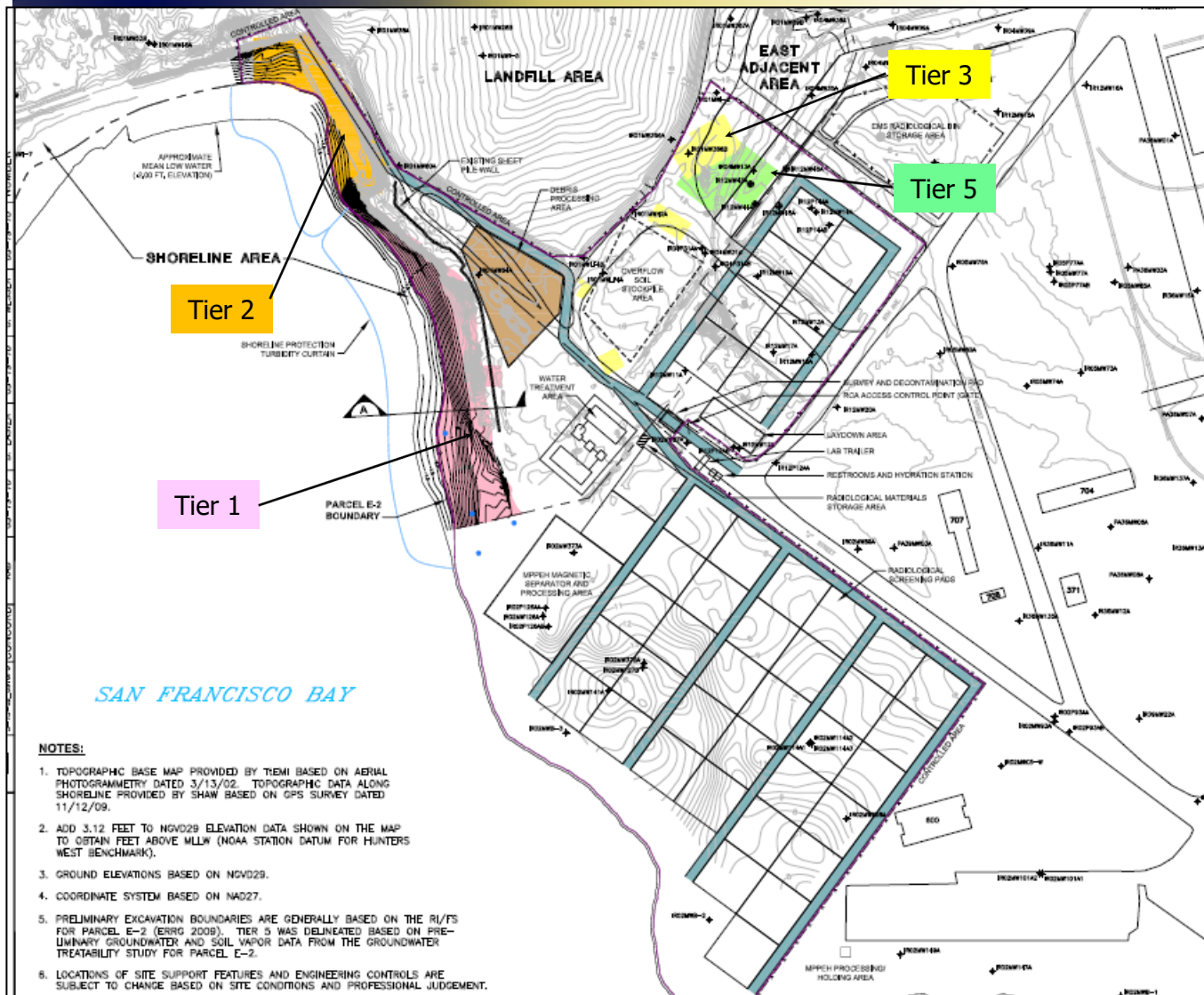


- Update
- TCRA Progress
  - Tiers 3 & 5
  - Tier 2
  - Tier 1
- What's Next
- Schedule





# Site Layout Map

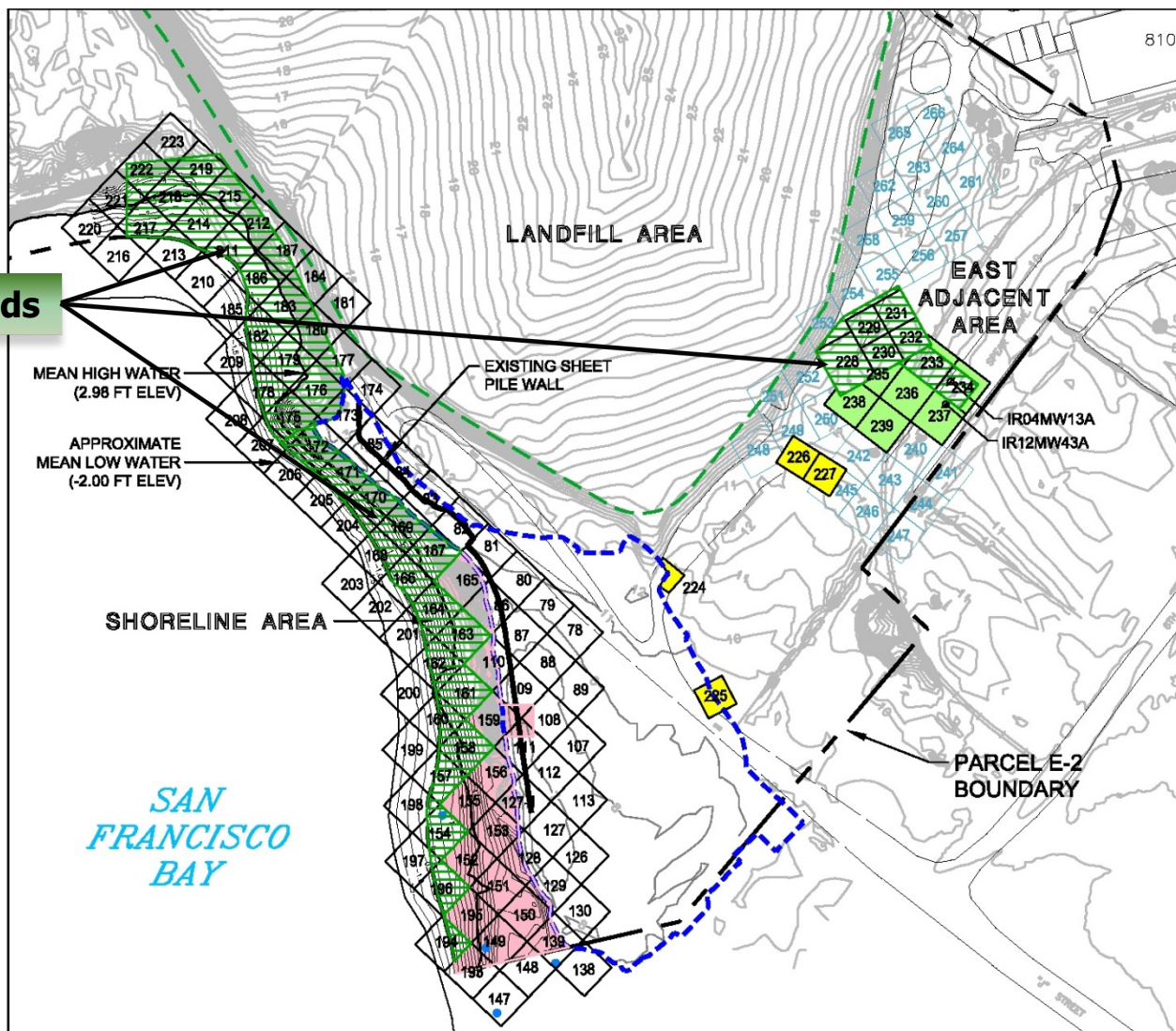




# TCRA Progress – Completed Excavations



Excavated grids





## Update Tiers 3 and 5



- Commenced excavation in Tiers 3 and 5 (Upland Area) on August 30, 2010
- 100% of original Tier 3 grids excavated to depth (3-10 feet bgs) and confirmation sampled
- Over-excavated top 3 feet (vertically) in Tier 3, Grids 231 and 232 for lead in May 2011
- Confirmation results show over-excavation required for lead and TPH
- Additional Tier 3 over-excavations to be addressed in August, after Navy conducts radiological final conditions survey of current excavation boundary





## Update Tiers 3 and 5 (continued)



- Tier 3 area exceeding PALs will be addressed in August

### Over-excavations in Tier 3

Tier	Grid	Depth (ft)	Pb Conc (mg/kg) (PAL=19,700)	TPH Conc (mg/kg) (PAL=3,500)	Comment
------	------	---------------	------------------------------------	------------------------------------	---------

#### SIDEWALL GRIDS

3	231	2	23,000	6,000	
---	-----	---	--------	-------	--

### Remaining Contamination at Tier 3 Boundary

Tier	Grid	Depth (ft)	Pb Conc (mg/kg) (PAL=19,700)	TPH Conc (mg/kg) (PAL=3,500)	Comment
------	------	---------------	------------------------------------	------------------------------------	---------

#### SIDEWALL GRIDS

3	253	3.6	19,700	Not exceeded	Close proximity to landfill
---	-----	-----	--------	--------------	-----------------------------

- Approximately 30% of Tier 5 grids excavated to depth and confirmation sampled
  - No over-excavation required to date



# Update Tiers 3 and 5 (continued)



Tiers 3 and 5 Looking East – June 8, 2011



## Update Tier 2



- Commenced excavation of Tier 2 on October 19, 2010
- Stopped excavation activities in December 2010 through mid-April 2011
- 100% of grids excavated, sampled, and backfilled with clean sand
- Received 100% of originally collected confirmation sample results





## Update Tier 2 (continued)



- Over-excavation currently required in six grids
- Over-excavations to date:
  - Grids 185 and 176 over-excavated to 10 feet bgs
  - Grid 183 sidewall over-excavated into Grids 180 and 184
- Over-excavation confirmation samples collected and results are pending



## Update Tier 2 (continued)



### Over-Excavations for PCBs

Tier	Grid	Depth (ft)	PCBs Conc (mg/kg)
BOTTOM OVER-EXCAVATIONS			
2	176	4.7	8.2 - removed
2	179	5.5	23.0
2	185	3.6	20.7 - removed
2	209	4.3	133

Soil/Sediment PALs = 7.4/1.8 mg/kg



## Update Tier 2 (continued)



### Over-Excavations for Metals

Tier	Grid	Depth (ft)	Cu Conc (mg/kg)	Pb Conc (mg/kg)
SIDEWALL OVER-EXCAVATIONS				
2	177	3.8	12,000	Not Exceeded
2	183	3.4	11,000 - removed	2,100 - removed
2	183	4.7	5,700 - removed	Not Exceeded

Metal concentrations below the Project Action Limits are not listed in this table

Copper Soil/Sediment PALs = 4,700/2,700 mg/kg

Lead Soil/Sediment PALs = 1,970/2,180 mg/kg





## Update Tier 2 (continued)



### Remaining Contamination at Tier 2 Boundary

Tier	Grid	Depth (ft)	PCB Conc (mg/kg)	Comment
BOTTOM GRIDS				
2	177	15.0	48.1	Below 10 ft bgs
2	182	4.3	8.1	In Parcel F
SIDEWALL GRIDS				
2	182	2.8	3.4	Parcel F boundary
2	184	3.4	22	Proximity to landfill
2	185	2.9	10	Parcel F boundary
2	186	3	8.8	Parcel F boundary
2	211	2.2	3.2	Parcel F boundary
2	214	3	4.7	Parcel F boundary

Soil/Sediment PALs = 7.4/1.8 mg/kg



# Update Tier 2 (continued)



## Backfill in Tier 2 – June 8, 2011





## Update Tier 2 (continued)



Backfill in Tier 2 – June 10, 2011





# Update Tier 1



- Commenced excavation of Tier 1 on May 11, 2011
- Approximately 57% of grids excavated, sampled, and backfilled
- Received 90% of collected confirmation sample results, remaining are pending
- Currently, two grids require over-excavation



View of Tier 1, looking northwest



## Update Tier 1 (continued)



### Over-Excavations for PCBs

Tier	Grid	Depth (ft)	PCBs Conc (mg/kg)
BOTTOM OVER-EXCAVATIONS			
1	170	4	10.8
1	198	3	7.2

Soil/Sediment PALs = 7.4/1.8 mg/kg



## Update Tier 1 (continued)



### Remaining Contamination at Tier 1 Boundary

Tier	Grid	Depth (ft)	PCBs Conc (mg/kg)	Comment
SIDEWALL GRIDS				
1	160	1.9	4.7	Parcel F boundary
1	160	3	9.8	Parcel F boundary
1	198	2	3.5	Parcel F boundary

Soil/Sediment PALs = 7.4/1.8 mg/kg





# Update Tier 1 (continued)



Excavating Grids 154 and 158 in Tier 1 Looking South – June 8, 2011



# Update Tier 1 (continued)



Excavating Grids 154 and 158 in Tier 1 – June 8, 2011



## Update Tier 1 (continued)



- Potential asbestos
  - Two torn bags marked asbestos with asbestos-looking material were encountered in Tier 1, Grid 161 (quadrant B), at approximately 5 feet bgs
  - Area was sprayed down to wet the bags and surrounding soil, then remotely loaded into a double-lined LLRW roll-off bin
  - Sample collected, results pending
  - If asbestos is confirmed, Health and Safety Plan will be revised and asbestos awareness training will be conducted for excavation crew
  - If additional bags are encountered during excavation, anticipate requirement to have asbestos-licensed subcontractor to oversee maintenance activities





# Update Tier 1 (continued)



Tier 1, Grid 161  
Potential Asbestos



# Frac Tank – Reuse of Rain Water



- Frac Tank #1 - Waste Water (20,000 gal)
  - Sample is radiologically releaseable based on Project Radionuclides of Concern (ROC)
  - Sample counted on two different types of detectors (N-Type and P-Type).
    - The P-Type (Aluminum Window) detector is not as accurate for detection of lower energy radionuclides.

Sample number WW-03 20110223 <sup>210</sup> Pb (laboratory used P-type)	Sample number WW-03 20110223 <b>DUP</b> <sup>210</sup> Pb (laboratory used N-type)
4560 +/- 4630 pCi/L	-42.5 +/- 492 pCi/L

- Sample will be recounted on more appropriate N-Type detector to provide confirmation of Feb 2011 analysis





# Update



- Soil on RSY pads cleared for MPPEH, incl. 3<sup>rd</sup> party QA
- Filled 97 roll-off bins with LLRW
- Transferred approximately 5,500 cubic yards of non-LLRW to ITSI for offsite disposal
- Continued erosion control and fence line inspections
- Continued collecting water samples outside of turbidity curtain
- Continued air monitoring







# What's Next



- Continue offsite T&D
- Implement Acceptance Sampling for MPPEH clearance early July
- Continue excavations and over-excavations
- Final conditions survey of Tier 3 and upland backfill





# Schedule



Activity	Date
Continue Hot Spots Excavation and Soil Screening; Extended MPPEH schedule	June – December 2011
Implement Acceptance Sampling Procedures	June – December 2011
Continue Backfill and Site Restoration	June 2011 – January 2012
Demobilize	January 2012
Submit Draft Removal Action Completion Report	March 2012